

**USPTO TRANSMITTAL SHEET**

Docket No.: IRDM.029CPCDCP/IDC-0005B1C1D1B1

**CUSTOMER NO. 20995**

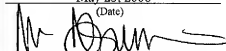
Applicant : Sampsell et al.  
Application No.: : 10/644,312  
Filed: : August 19, 2003  
Art Unit : 2873  
Examiner : Timothy J. Thompson  
For : SEPARABLE MODULATOR

**CERTIFICATE OF EFS WEB  
TRANSMISSION**

I hereby certify that this correspondence, and any other attachment noted on the automated Acknowledgement Receipt, is being transmitted from within the Pacific Time zone to the Commissioner for Patents via the EFS Web server on:

May 23, 2008

(Date)

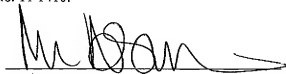


Mark M. Abumeri, Reg. No. 43,458

Transmitted herewith for filing and consideration in the above-referenced application are the following documents. Applicant originally filed these documents on December 17, 2004, but the Office has not changed the attorney of record for said application. Please consider the following documents:

- (X) Copy of Transmittal Letter to the United States Patent and Trademark Office, previously filed on December 17, 2004 in 1 page.
- (X) Copy of Auto-Reply Facsimile Transmission from the United States Patent and Trademark Office dated December 17, 2004 in 1 page.
- (X) Establishment of Right of Assignee to Take Action and Revocation and Power of Attorney executed on November 22, 2004 in 2 pages, previously filed on December 17, 2004.
- (X) An assignment executed by the inventors to Iridigm Display Corporation executed on August 14, 2003 in 1 page, previously filed on December 17, 2004.
- (X) A second assignment executed by Iridigm Display Corporation to IDC, LLC on October 1, 2004 in 5 pages, previously filed on December 17, 2004.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



Mark M. Abumeri  
Registration No. 43,458  
Attorney of Record  
Customer No. 20,995  
(619) 235-8550

5417348/052208

Applicant : Sampsell, et al.  
U.S. App. No. : 10/644,312  
Filed : August 19, 2003  
Group Art Unit : 2673  
For : SEPARABLE MODULATOR  
Examiner : Unknown

## CERTIFICATE OF FAX TRANSMISSION

I hereby certify that this correspondence and all marked attachments are being transmitted via facsimile to the USPTO Central Fax No. (703) 872-9306 on the date shown below:

December 17, 2004

  
Mark M. Abumeri Reg. No. 43,458

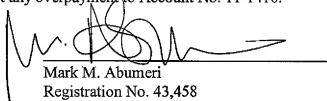
## TRANSMITTAL LETTER

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing please find:

- (X) Establishment of Right of Assignee to Take Action and Revocation and Power of Attorney (2 pages).
- (X) A first assignment executed by Jeffrey Brian Sampsell, Mark W. Miles, Clarence Chui and Manish Kothari on August 14, 2003 (2 pages).
- (X) A second assignment executed by Iridigm Display Corporation to IDC, LLC on October 1, 2004 (5 pages).
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.

  
Mark M. Abumeri  
Registration No. 43,458  
Attorney of Record  
Customer No. 20,995  
(619) 235-8550



Fax Sender at 16192350176



12/17/2004 8:24:16 PM [Eastern Standard Time]

10 (including cover page)

Total Pages:

**ADVISORY:** This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

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12-17-04 15:24 FAX 16192350178		RICH SAN DIEGO		0007100	
				PATENT	
Export No.: FRDB492FCDFC				CUSTOMER NO. 20992	
Applicant : Sanyuall, et al U.S. App No. : 10446,312 Filed : August 19, 2003 Group Art Unit : 2673 Fee : SEPARABLE MODULATOR Examiner : Unknown				CERTIFICATE OF FAX TRANSMISSION I hereby certify that this communication was received at the office on the date indicated on the inside of the USPTO Control Fax No. FRDB 17-0396 on the date shown below  Received 17, 2004  Mark M. Ahumada Reg. No. 42,407	
TRANSMITTAL LETTER					
Commissioner for Patents PO Box 1450 Alexandria, VA 22312-1450					
Dear Sir:					
Enclosed for filing please find:					
(X) Establishment of Right of Assignee to Take Action and Revocation and Power of Attorney (2 pages).					
(X) A first assignment executed by Jeffrey Brian Sanyuall, Mark W. Miles, Clarence Chui and Mariah Kothari on August 14, 2003 (2 pages)					
(X) A second assignment executed by Irldigm Display Corporation to IDC, LLC on October 1, 2004 (5 pages).					
(X) The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.					
 Mark M. Ahumada Registration No. 43,458 Attorney of Record Customer No. 20,995 (615) 232-9550					
S:\DOC\ADMIN\HMA\9274.DOC\11-1410					

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Jeffrey Sampsell, et al.	)
			)
U.S. App. No. :		10/644,312	)
			)
Group Art Unit:		2673	)
			)
Filed	:	August 19, 2003	)
			)
For	:	SEPARABLE MODULATOR	)
			)
Examiner	:	Unknown	)

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ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original assignment(s) and/or merger document(s) (hereinafter collectively the "Assignment") of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 2040

U.S. App. No. : 10/644,312  
Filed : August 19, 2003

Main Street, Fourteenth Floor, Irvine, California 92614, Telephone (949) 760-0404, **Customer No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

IDC, LLC

Dated: November 22, 2004

By: ALFRED P. HILDEBRAND

Name: **ALFRED P. HILDEBRAND**

Title: **PRESIDENT**

Address: 2415 Third Street, Suite 235  
San Francisco, CA 94107

S:\DOCS\IMMA\MMA-9034.DOC\ves\101304

**ASSIGNMENT**

**Assignor:** Jeffrey Brian Sampsell  
**Address:** 1310 Minnesota Street, #204  
San Francisco, California 94107

**Assignor:** Mark W. Miles  
**Address:** Bldg. 43 Fort Mason  
San Francisco, CA 94123

**Assignor:** Clarence Chui  
**Address:** 1954 Los Altos Drive  
San Mateo, California 94402

**Assignor:** Manish Kothari  
**Address:** 811 Mediterranean Lane  
Redwood City, California 94065

**Assignee:** Iridigm Display Corporation  
2415 3<sup>rd</sup> St., Suite 235  
San Francisco, California 94107

**Title of  
Invention:** SEPARABLE MODULATOR

U.S. Patent Application:


Application Serial No.:  
Filing Date:

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues, non-provisionals and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal

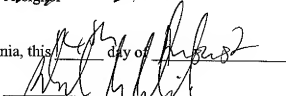
proceeding, sign all lawful papers, execute all divisional, continuing, non-provisional and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

2003. Executed at SAN FRANCISCO, California, this 14<sup>TH</sup> day of AUGUST.

  
Jeffrey B. Sampsell  
Assignor

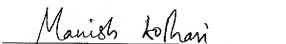
2003. Executed at San Francisco, California, this 14<sup>th</sup> day of August.

  
Mark W. Miles  
Assignor

2003. Executed at San Francisco, California, this 14<sup>th</sup> day of August.

  
Clarence Chui  
Assignor

2003. Executed at San Francisco, California, this 14<sup>th</sup> day of August.

  
Manish Kothari  
Assignor

## PATENT ASSIGNMENT

This PATENT ASSIGNMENT (the "Assignment") dated October 1, 2004 (the "Effective Date") is made by IRIDIGM DISPLAY CORPORATION, a Delaware corporation (the "Assignor") to IDC, LLC, a Delaware limited liability company (the "Assignee").

### INTRODUCTION

The Assignor has certain ownership interests in the patents and patent applications listed on Exhibit A.

The parties desire to have a recordable instrument assigning from the Assignor to the Assignee all of the Assignor's ownership interests in and to the patents and patent applications listed on Exhibit A and any and all provisionals, continuations, divisions, continuation-in-parts, reissues, reexaminations, extensions, substitutions, and foreign counterparts thereof, including all United States and foreign patents issuing therefrom, and with respect to all European Patent Convention patents and patent applications, including corresponding rights in national patents in any member state in which the European Patent, when granted, is nationalized (all of the foregoing, collectively, the "Patents").

### AGREEMENT

NOW, THEREFORE, in accordance with the obligations to assign the Patents and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignor agrees to the foregoing and as follows:

1. The Assignor does and will sell, assign and transfer to Assignee, the Assignor's entire ownership interest in and to each of the Patents, including, without limitation, the rights to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.
2. The Assignor agrees that, upon request and without further compensation, and at the expense of the Assignor, the Assignor and the Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Patents in the United States and throughout the world, and for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Patents in the United States and throughout the world. In the event that Assignee is unable for any reason to secure an Assignor's signature to any document that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Patents in the United States and throughout the world, or for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Patents in the United States and throughout the world, the Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as the Assignor's agents and attorneys-in-fact to act for and on the



Assignor's behalf and instead of the Assignor to execute such document, all with the same legal force and effect as if executed by the Assignor.

3. The Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and the various counterparts thereof throughout the world to issue and/or grant any Letters Patent granted for each of the Patents to Assignee, its successors and assigns, as the assignee of the entire interest in such Patents.

IRIDIGM DISPLAY CORPORATION

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

*JB*  
*JA*

*JOHN BATEY*

*CHIEF OPERATING OFFICER*

## EXHIBIT A

August 30, 2004

Country	Filed	Serial #	Issued	Patent #	Status
<u>VISIBLE SPECTRUM MODULATOR ARRAYS</u>					
EPC	05/01/1995	95918880.6			NAT PHASE
JAPAN	05/01/1995	7-529030			NAT PHASE
UNITED STATES	05/05/1994	08/238,750	11/10/1998	5,835,255	ISSUED
WIPO	05/01/1995	PCT/US95/05358			ABANDONED
UNITED STATES	04/23/1986	06/855,166			ABANDONED
UNITED STATES	03/04/1988	07/166,744			ABANDONED
UNITED STATES	01/12/1989	07/296,896			ABANDONED
UNITED STATES	03/05/1990	07/489,794			ABANDONED
UNITED STATES	11/18/1991	07/794,819			ABANDONED
UNITED STATES	05/01/1993	08/032,711			ABANDONED
UNITED STATES	02/25/2002	10/082,397			PENDING
<u>INTERFEROMETRIC MODULATION</u>					
JAPAN	11/06/1996	09-518276			PENDING
UNITED STATES	07/31/1996	08/688,710	03/21/2000	6,040,937	ISSUED
UNITED STATES	01/27/1999	09/238,340	04/25/2000	6,055,090	ISSUED
UNITED STATES	11/16/1995	08/554,630			ABANDONED
<u>INTERFEROMETRIC MODULATION OF RADIATION</u>					
UNITED STATES	12/19/1996	08/769,947			ABANDONED
UNITED STATES	10/10/2001	09/974,544	01/20/2004	6,680,792	ISSUED
UNITED STATES	11/21/2001	09/991,378			PENDING
UNITED STATES	02/19/2002	10/078,282			PENDING
UNITED STATES	04/07/1999	09/966,843			ALLOWED
UNITED STATES	01/05/2004	NOT ASSIGNED			PENDING
<u>VISIBLE SPECTRUM MODULATOR ARRAYS</u>					
UNITED STATES	11/05/1996	08/744,253	11/05/1996	5,986,796	ISSUED
UNITED STATES	08/20/1999	09/378,143			ABANDONED
<u>INTERFEROMETRIC MODULATION OF RADIATION</u>					
SOUTH KOREA	10/09/1999	2000-7011227			NAT PHASE
TAIWAN	04/07/1999	88105551			ABANDONED
TAIWAN	04/07/1999	89113021	TW165294	10/02/2002	ISSUED
UNITED STATES	04/08/1998	09/056,975	6,674,562	01/06/2004	ISSUED
WIPO	04/01/1999	US99/07271			PENDING
<u>PHOTONIC MEMS AND STRUCTURES</u>					
UNITED STATES	10/05/1999	09/413,222			PENDING
WIPO	07/10/2001	US01/41341			PENDING
UNITED STATES	11/13/2001	10/012,092	6,650,455		ISSUED
UNITED STATES	08/19/2002	10/224,029			PENDING

TAIWAN	3/22/2002	91105559		PENDING
JAPAN	07/10/2001	2003-512759		PENDING
SOUTH KOREA	07/10/2002	2004-700433		PENDING

DIRECTLY LAMINATED TOUCH SENSITIVE SCREEN

UNITED STATES	06/05/2001	09/875,401		PENDING
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HERMETIC SEAL AND METHOD TO CREATE SAME

UNITED STATES	08/01/2001	09/921,196	6,589,625	07/08/2003	ISSUED
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CONTROLLING MICRO-ELECTROMECHANICAL CAVITIES

UNITED STATES	02/12/2002	10/076,224	6,710,908	03/23/2004	ISSUED
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A METHOD FOR FABRICATING A STRUCTURE FOR MICROELECTROMECHANICAL SYSTEMS (MEMS) DEVICE

UNITED STATES	02/12/2002	10/074,562		ALLOWED
WIPO	04/29/2002	US02/13442		PENDING

MICROELECTRICMECHANICAL SYSTEMS DEVICE AND METHOD FOR FABRICATING SAME

UNITED STATES	02/27/2002	10/084,893	6,574,033	06/03/2003	ISSUED
WIPO	04/29/2002	US02/13462			PENDING

A DEVICE HAVING A LIGHT-ABSORBING MASK AND A METHOD FOR FABRICATING SAME

UNITED STATES	07/02/2002	10/190,400	6,741,377	05/25/2004	ISSUED
WIPO	06/27/2003	US03/20433			PENDING

CONTROLLING ELECTROMECHANICAL BEHAVIOR OF STRUCTURES WITHIN A MICROELECTROMECHANICAL SYSTEMS DEVICE

UNITED STATES	09/18/2003	10/251,196		PENDING
WIPO	09/20/2002	US03/30016		PENDING
TAIWAN	09/18/2003	92125860		PENDING

A METHOD FOR MANUFACTURING AN ARRAY OF INTERFEROMETRIC MODULATORS

UNITED STATES	04/15/2003	10/414,594		PENDING
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THIN FILM PRECURSOR STACK FOR MEMS MANUFACTURING

UNITED STATES	06/24/2003	10/606,001		PENDING
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SEPARABLE MODULATOR

UNITED STATES	08/19/2003	10/644,312		PENDING
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AREA ARRAY MODULATION AND LEAD REDUCTION IN INTERFEROMETRIC MODULATOR ARRAYS

UNITED STATES	12/09/2003			PENDING
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METHOD TO CHANGE TEMPORAL RESPONSE OF IMODS

UNITED STATES      03/03/2004      PENDING

IMOD WITH INTEGRATED SHUNT RESISTOR NETWORK

UNITED STATES      02/03/2004      PENDING

INTEGRAL MODULATOR ILLUMINATION

UNITED STATES      03/04/2004      PENDING

MEMS DEVICES WITH UNRELEASED THIN FILM COMPONENTS

UNITED STATES      11/03/2003      PENDING